

Date: Fri, 5 Nov 93 00:01:34 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1311  
To: Info-Hams

Info-Hams Digest                      Fri, 5 Nov 93                      Volume 93 : Issue 1311

Today's Topics:

3V8AS, anyone else?  
811A Recommendations  
From KB7 to KC7 prefix ?  
Homosaturation  
Kenwood IF-232  
Observations on Kenwood TH-78 (2 msgs)  
PC ham station software, info  
Q codes  
Radio Shack HTs (2 msgs)  
SAREX KEPS & UPDATE 10/28  
SAREX STS-58 QSL Cards  
Swan 350 Info wanted  
We've lost him, Jim! (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Tue, 2 Nov 1993 21:16:39 GMT  
From: spsgate!mogate!newsgate!sauron!smith@uunet.uu.net  
Subject: 3V8AS, anyone else?  
To: info-hams@ucsd.edu

I worked him last year on 10m and received my QSL ok via the IK manager  
now waiting for my 17m QSL to arrive.

Only problem is that he has not submitted documentation to the mighty

all seeing all knowing ARRL DX committee. 8^)

He is in 3V8 land and DK2WV has met him.

73 Trevor G3WQO AB5EU still exiled in Texas.

-----  
Date: Tue, 2 Nov 1993 23:22:43 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!swrinde!cs.utexas.edu!  
gerald@cc.utexas.edu!portal.austin.ibm.com!awdprime.austin.ibm.com!  
woody@network.ucsd.edu  
Subject: 811A Recommendations  
To: info-hams@ucsd.edu

Apologies for the previous post with the deleted text. My old news reader has served me well, but here goes another try with an alternate.

I need to purchase 4 811A's to install vertically in a homebrew PA. RCA, Penta Labs, and "house brand" (Soviet?) are options so far. If anyone in netland has any recommendations, caveats, and/or other information, please let me know. I'm back into the hobby after a 27 year absence and miss the warm glow of tubes (W\* callsign also).

Thanks,  
Woody Lemcke (KB5YKK)

-----  
Date: Wed, 03 Nov 1993 09:06:16 -0700  
From: orca.es.com!cnn.sim.es.com!msanders.sim.es.com!user@uunet.uu.net  
Subject: From KB7 to KC7 prefix ?  
To: info-hams@ucsd.edu

In article <CFu19K.JoM@hpcvsnz.cv.hp.com>, davidc@lsid.hp.com (David Cook) wrote:

> When region 7 runs out of KB7 prefix call signs what does the KC7 batch start  
> at? KC7AA ? KC7AAA ?  
>  
> Inquiring minds want to know. Well, at least mine does.  
>  
> Dave, KB7QCL

Dave:

My boys just got their licenses two days ago, KB7ZIU and KB7ZIV, so it is getting close. My 12 year old was glad that he missed getting KB7ZIT (but

it was close!) A teenager with ZITs would not like that. My opinion says that KC7AAA will be the first KC7 call, but who cares about my opinion? Anyway, the "General" calls in region 7 are exhausted, so Novice through General in Region 7 have been getting 2 x 3 calls. The Advanced calls have been coming in as KI7xx in 2 x 2 format.

Milt

--

=====

Opinions, thoughts, &cetera are my own (when I can remember them).

"He flies the sky  
Like an Eagle in the eye  
of a hurricane that's abandoned."

America

KB7MSF/AG  
Amateur Radio  
"Sandman"  
Utah

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Date: 5 Nov 93 04:34:31 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Homosaturation  
To: info-hams@ucsd.edu

>Support immorality or we will sue you, this seems to be the gay's message.

Hey guys, could we change this thread to talk about Hams with bipolar personalities who ride Harleys and are members of Mensa? That would be a lot more interesting to me.

73, Cecil, kg7bk@indirect.com  
(I do not speak for Intel on Internet)

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Date: 4 Nov 93 23:44:34 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Kenwood IF-232  
To: info-hams@ucsd.edu

Someone asked:

| I am trying to use software called KTWIN to control a Kenwood TS140S  
| transceiver. However an interface from the receiver to the PC serial  
| port is required. Kenwood produce one called an IF 232 but is quite  
| expensive. I understand that is possible to "home brew" such an  
| interface. Does anyone know if a circuit is available of an

| equivalent or if a circuit is stored at an FTP site?  
| Thanks.

I have a long answer and no address to send it to. Please EMail me and I will reply.

Lowell Brunson (503) 681-0417  
Rosenet: lbrunson@roland.co.jp  
Internet: lbrunson@rodgers.rain.com (preferred)  
lowell@techbook.com  
Packet Radio: KC7DX@K7IQI.OR.USA.NA

-----  
Date: 4 Nov 93 22:36:17 GMT  
From: news.encore.com!wizard!slightbo@uunet.uu.net  
Subject: Observations on Kenwood TH-78  
To: info-hams@ucsd.edu

In article <CFvzJ8.KDt@kaiwan.com>, andrew@kaiwan.com (Andrew Parker) writes:

> Since there's been alot of news lately on the Kenwood TH-78 handhelds,  
> I thought I'd post an observation that I've had for the past few months.  
> Here in Southern California, there is a rapidly growing radio club  
> named the 78'ers. For the most part, they all seem to worship and  
> be very dependant on their 78's. I find it humorous that they all  
> seem to think that just because they paid an arm and a leg for a  
> radio that has WAY too many whistles and bells on it, that it will  
> perform miracles for them. They seem to have a habit of not hooking  
> the HT's up to an external antenna, so subsequently, they always  
> sound like crap.  
>  
> I decided to "test-drive" a friend's 78 one day, and was truly  
> dissappointed. On top of the disgustingly poor intermod rejection,  
> the battery life was nil, even though it was a fresh battery that  
> had been fully charged the day before. I think it died on me within  
> about 4 hours, and I wasn't talking all that much. And, the damn thing  
> is SO small, that everytime I tried pushing a button, I ended up hitting  
> a few others in the process.  
>  
> So, in conclusion, finally, I think I'll stick with my Alinco 580,  
> which was quite a bit less money, and seems to work quite a bit better  
> than the Kenwood TH-78. Please, people, buy whatever you want, but  
> if you're planning on using your new HT in an area with RF obstructions,  
> buy a less expensive radio, and spend the left-overs on a decent antenna  
> system. My \$0.02.  
>

What about the Yaesu FT-530. Whould that be a comparable rig? Better? or

Worse? Has anyone used the FT-530. Can it be modified? Does the rx range go below 130 MHz.

I listen to the aircraft band and the FT-530 has features for Ham radio that I like.

Any comments?

```
=====
,------.      Sam Lightbourne, KI4JJ
,------. |      Encore Computer Corporation, Ft. Lauderdale, FL
| | E N C O R E | |      slightbo@encore.com
| `-----'+-|
| `-----'
=====
```

-----

Date: Thu, 4 Nov 1993 22:50:43 GMT  
From: news.cerf.net!kaiwan.com!andrew@network.ucsd.edu  
Subject: Observations on Kenwood TH-78  
To: info-hams@ucsd.edu

In <2b9q50\$5du@cnn.sim.es.com> FORRELL@130.187.198.34 (FORRELL) writes:

>I find it hard to run mine down! I have the 1100 ma extended battery pack  
>and it never seems to go down. I have owned several HT's and the TH-78  
>Fred Orrell  
>WB5NOE

I think anything with an 1100 ma battery is going to last forever, no matter how much the radio's consumption is. But, I guess it is quite possible that the particular radio I tested was draining the battery especially fast, maybe due to the relatively high amounts of traffic on the repeaters in this area. It had to receive a signal continuously without a break. That eats up some battery power.

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Andrew Parker		KD6TGM		andrew@kaiwan.com	
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Date: 4 Nov 93 23:18:22 GMT  
From: ogicse!emory!news-feed-2.peachnet.edu!darwin.sura.net!news.lsu.edu!  
unix1.sncc.lsu.edu!xp2770@network.ucsd.edu  
Subject: PC ham station software, info

To: info-hams@ucsd.edu

Hello all!

I'm looking for a computer program (DOS, I guess, or Windows) called "Ham Windows" (?) by Kenwood. One of my friends in India, VU2IJ, wants to have this for his shack. It seems to be some kind of all-singing, all-dancing log + rotor control + keyer software.

What does it really do? And, how much does it cost?

Most importantly, is there any good public-domain equivalent for DOS/Windows available from any ftp site? Please help; reply directly to pdastoor@gumbo.age.lsu.edu. Thanks.

Phiroze Dastoor  
(ex-VU2SAS; soon to have  
a W/K call...)

-----  
Date: Tue, 2 Nov 1993 19:32:06 GMT  
From: munnari.oz.au!spool.mu.edu!howland.reston.ans.net!math.ohio-state.edu!  
cs.utexas.edu!convex!news.utdallas.edu!corpgate!nrtpa038!brtph560!brtph87!  
tcain@network.ucsd.edu  
Subject: Q codes  
To: info-hams@ucsd.edu

> QPP: I have to go to the bathroom.  
^^^  
And I always thought it was...\

QTJ: Quick Trip to the John

--  
Tom Cain WB8OUE tcain@bnr.ca  
disclaimer: i don't speak for nobody!

-----  
Date: 5 Nov 93 03:05:50 GMT  
From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!  
usenet.ins.cwru.edu!odin!trier@network.ucsd.edu  
Subject: Radio Shack HTs  
To: info-hams@ucsd.edu

In article <2bbr07\$673@jericho.mc.com>, Bob Levine <levine@mc.com> wrote:  
>I haven't heard a bit of intermod from my FT530. I can't remember  
>hearing any from my W2A or my 32AT in normal every day use.

One thing to keep in mind is that when someone says "intermod", they may mean intermodulation, front-end overload, or any other sort of spurious reception.

My \$0.02: Be careful to control for differences in the antenna or the location when comparing two HTs. It can make all the difference.

Anyway, I agree, some good lab measurements of HT resistance to interference would make interesting reading. It would be interesting to quantify what is so far a strictly qualitative debate.

Stephen

```
--
Stephen Trier  KB8PWA      "[I]t's time to put your power supply under the
Work: trier@ins.cwru.edu   cardboard pyramid in the fridge with the oranges
Home: sct@po.cwru.edu     and razor blades under it."
                           - jangus@skyld.tele.com
```

Date: Wed, 3 Nov 1993 00:59:36 GMT  
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!  
hobbes.physics.uiowa.edu!news.uiowa.edu!icaen!drenze@network.ucsd.edu  
Subject: Radio Shack HTs  
To: info-hams@ucsd.edu

levine@mc.com (Bob Levine) writes:

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>In article GREGL@delphi.com, Greg Law <GREGL@delphi.com> () writes:
>-->Several people in the area (including myself) use the Realistic HTX-202
>-->and are very pleased with them. They are rugged and dependable units (I've
>-->dropped mine on concrete and it still keeps ticking), come with everything
>-->you need, and have have a very tight front-end. Of course this means that
>-->the HTX-202 isn't nearly as prone to intermod as some of the others. What
>-->I particularly like about Radio Shack is that they sell the HTX-202 and
>-->HTX-404 with everything -- DTMF encode and decode, CTCSS encode and decode,
>-->auto-dial, etc. -- whereas most other companies sell the bare-bones HT
>-->and make everything else optional, extra-cost items. Quite frankly, I'm
>-->amazed some of the others actually include a rubber duck antenna as standard
>-->equipment when they could sell them as a $30 to $50 add-on. :-)
>-->
>--> -- Greg KE4DPX
```

I'll second all this. I've knocked mine from 5' on to concrete. Didn't even fracture the case. Is an excellent buy for the \$\$\$, IMHO.

>Actually most HT's these days include all that standard. Why spend \$250 for  
>a 2m mono band RS HT and then another \$250 (?) for a monband 440 RS HT when  
>for way less that \$500 you can get quality dual banders? My FT530 has no

>optional extras and the total price was \$429. All of those features you  
>mention plus a hell of a lot more are included.

Problem is, all the dual-banders/expanded coverage HT's I've run across  
seem to have nasty intermod probs. I haven't had any regrets about buying the  
'202. Now, if somebody would come out with a narrow bandpass filter kit to  
replace the tight front-end that these HTs \*should\* have, then I might agree  
with what you've got to say about buying a dual-bander...

```
--  
__  /|  | Douglas J Renze, N0YVW  |  
'o.O'  | +1 319 337 4664          |           IN GOD WE TRUST  
=(___)= | drenze@icaen.uiowa.edu   |           All Others Pay Cash  
  U     | Douglas-Renze@uiowa.edu  |
```

-----  
Date: 4 Nov 93 19:34:25 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: SAREX KEPS & UPDATE 10/28  
To: info-hams@ucsd.edu

R:931104/1650Z @:VK4DGQ.QLD.AUS.OC [Brisbane] #:36660 \$:931028050312  
R:931103/0148Z @:VK1KCM.ACT.AUS.OC [Canberra, ACT] \$:931028050312  
R:931102/1100Z @:OH3RBR.#FTRE.FIN.EU [Tampere] #:72363 Z:33720 \$:931028050312  
R:931102/0852Z @:OH6RBV.#VAA.FIN.EU [Vaasa] #:104613 FBB5.15 Bid:931028050312  
R:931102/0835Z @:F6CNB.#SETX.TX.USA.NA [SugarLand] #:60679 Z:77478  
R:931031/1459Z @:KB2EAR.NJ.USA.NA \$:931028050312 #:3519 Z:08824 FBB5.15  
R:931031/1418z @:W2XO.#SWPA.PA.USA.NOAM [Pittsburgh] O:ABFHB #:85467 Z:15044  
R:931031/1219Z @:KA3RWP.#WPA.PA.USA.NA [VERONA,PA] #:52995 Z:15147 FBB5.15  
R:931031/1112Z @:K30IW.#WPA.PA.USA.NA [Independence Twp] #:54151 Z:15001 FBB5.1  
R:931031/1004z @:K8LG.WV.USA.NOAM #:51657  
R:931031/0935z @:WA8OMR.#NWV.WV.USA.NOAM Glendale, Wv. #:836 B:931028050312  
R:931031/0539z 54955@WB8CQV.WV.USA.NA  
R:931030/1600z 34858@KA8DRR.#SEOH.OH.USA.NA  
R:931030/1552Z @:WA8GUG.OH.USA.NA Chillicothe #:23176 Z:45601  
R:931030/1514Z @:N8GTC.#CIN.IN.USA.NOAM Brookville #:47346 Z:47012  
R:931030/0718z 29215@W90J.IN.USA.NA  
R:931030/0652z 22073@N5CEC.IN.USA.NA  
R:931030/0540Z @:KK9G.#CEIN.IN.USA.NA [Indianapolis,In.] #:21727  
R:931030/0537Z @:N5AAA.#CEIN.IN.USA.NA [Noblesville] #:35453  
R:931029/1256Z @:KD9LP.#NCIN.IN.USA.NA [Amboy] #:26400 Z:46911 FBB5.15  
R:931029/0636Z @:NU9H.#NWIN.IN.USA.NA [MIDWEST SATGATE] #:15967  
R:931028/1900z @:WA8URE.#SWMI.MI.USA.NA Grand Rapids #:36038 Z:49508

SB SAREX @ AMSAT \$STS-58.025  
SAREX Keps & Update: 10/28

Thursday 10/28/93 @ 08:00 UTC

The last school group contact was completed yesterday. The Portsmouth HS in Portsmouth, New Hampshire had a telebridge contact using stations in California (Ralph Warner, N6MNN) and Texas (Bob Douglas, W5GEL). The students asked 5 questions during this bridge contact.

Hams across the U.S. and around the world continue to work the Shuttle Columbia on both voice and packet. Moreover, the completion of school group contacts has cleared several school backup passes for possible general QSO opportunities. While the SAREX Working Group cannot fully guarantee availability, there is a high probability that the STS-58 crew will be ready to take general calls over the continental U.S. on these passes. Two of these "scheduled" passes remain. These include orbit 178 at MET 11 days 1 hour 42 minutes (10/29 at 16:35 UTC) and orbit 192 at MET 11 days 22 hours and 29 minutes (10/30 at 13:22 UTC). Please note that the astronauts operated voice during yesterday's "scheduled" pass which occurred on 10/27 at 14:59 UTC (Orbit 145). Also note that hams on the ground heard or worked the Shuttle Columbia crew on several other orbits yesterday.

Element set GSFC-031, generated by Ron Parise, WA4SIR, is the official SAREX set for today. Please note that there is only a six second difference between element set GSFC-025 (released two days ago) and element set GSFC-031.

#### STS-58

1	22869U	93065A	93300.17699070	0.00133671	99048-5	24183-3	0	318
2	22869	39.0252	71.9896	0012817	34.2105	325.9529	16.00500857	1383

#### Satellite: STS-58

Catalog number: 22869

Epoch time: 93300.17699070 (27 OCT 93 04:14:51.\*\* UTC)

Element set: GSFC-031

Inclination: 39.0252 deg

RA of node: 71.9896 deg

Space Shuttle Flight STS-58

Eccentricity: 0.0012817

Keplerian Elements

Arg of perigee: 34.2105 deg

Mean anomaly: 325.9529 deg

Mean motion: 16.00500857 rev/day

Semi-major Axis: 6651.1630 Km

Decay rate: 0.13E-02 rev/day\*2

Apogee Alt: 281.30 Km

Epoch rev: 138

Perigee Alt: 264.25 Km

NOTE - This element set is based on NORAD element set # 031.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

-----  
Date: 4 Nov 93 14:17:53 EST  
From: psinntp!arrl.org@uunet.uu.net  
Subject: SAREX STS-58 QSL Cards  
To: info-hams@ucsd.edu

STS-58 QSL cards should be sent to ARRL, SAREX STS-58 QSL, 225 Main Street, Newington, CT 06111.

To receive a QSL, include the QSO information (e.g. date, time in UTC, frequency, mode) which documents the contact or listener report. In addition you must also include a SASE using a large (9 x 4), business sized envelope if you wish to receive a card. No cards will be distributed without the proper postage affixed or sufficient IRCs included. Please expect a lengthy (6-10 month) wait after the mission to receive your QSL card. Development of a SAREX QSL card can be a very lengthy process.

Congratulations on working (or hearing) Space Shuttle Columbia and the astronaut-crew during STS-58!

Posted by:

Robert J Inderbitzen, NQ1R	voice: (203) 666-1541 X213
Educational Activities Department	fax: (203) 665-7531
American Radio Relay League	email: rinderbi@arrl.org
225 Main Street	ARRL BBS: (203) 666-0578
Newington, CT 06111 USA	CompuServe: 70007,3373.

-----  
Date: 5 Nov 93 02:09:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Swan 350 Info wanted  
To: info-hams@ucsd.edu

>  
>I have a chance to buy a Swan 350 in "excellent" condition. I know nothing  
>about this rig other than that it puts out 300 W and is probably old.  
>Anyone have one or know how they do? Are they tube or solid state, analog  
>frequency display, modes, bands covered, general coverage receiver, built  
>in filters, suitable for HF packet? Also, what would be a good price? The  
>owner is asking \$325, including speaker and power supply.

>  
>Mark KA3LFG  
>

Swan 350's and 500's came about in the late 60's. They have tubes and some transistors. Five bands, 80-10 on both receiver and transmitter. No general coverage receive capability. Analog dial/display, were for CW, SSB, and a form of AM. \$325 if it truly is "excellent" is probably a fair price for the whole thing.

-----  
Date: 3 Nov 1993 09:26:46 -0600  
From: swrinde!cs.utexas.edu!hermes.chpc.utexas.edu!news.utdallas.edu!corpgate!crchh327.bnr.ca!kharker@network.ucsd.edu  
Subject: We've lost him, Jim!  
To: info-hams@ucsd.edu

In article <2b8dvg\$7j6@oak.oakland.edu>, prvalko@vela.acs.oakland.edu (prvalko) writes:

|> I thing one of the TOP TEN "big ham radio lies" is that you can work an  
|> orbiting object with an HT. OSCAR 21 is supposedly one such satellite  
|> and from my experience you need several dozen watts and a yagi which can  
|> be pointed at the "bird" as it fly overhead.  
|>  
|> Verticals have too low an angle of radiation to work a satellite which is  
|> higher than 30 degree or so above the horizon.  
|>  
|> On the bright side, you can HEAR many of these satellites with even a  
|> cheap scanner. Try it!  
|>  
|> paul wb8zjl  
|>

Well, what if you had a 5W to 60W 2m amp and the appropriate antenna system? Would it work then? Granted, if you were going to spend \$400 on an amp and antenna, in my mind you might want to go all the way and buy a VHF/UHF rig meant for this stuff, but what if you already had the amp, and you could afford the antenna system, but not the \$1000 rig?

(This is all conjecture for me, as I am finding it difficult to justify the money for an HT, personally - much less anything more expensive than that...)

--

=====  
Kenneth E. Harker                      BNR                      "Any opinions expressed  
kharker@bnr.ca                      Richardson, Texas, USA                      are solely mine and do  
N1PVB                      (214) 684-5115                      not represent BNR"  
=====

-----  
Date: Wed, 3 Nov 1993 16:20:55 GMT  
From: utcsri!utnut!torn!csd.unb.ca!UPEI.CA!seeler@uunet.uu.net  
Subject: We've lost him, Jim!  
To: info-hams@ucsd.edu

In article <msattlerCFwMLx.9sD@netcom.com>  
msattler@netcom.com (Michael Sattler) writes:

>Subject: We've lost him, Jim!

>I've heard it said that it's possible to hear MIR, the Space Shuttle,  
>OSCAR, etc. with an HT and position-plotting software, tables, etc.

>

>Is it possible (or likely or routine) to speak with orbitals via a  
>5-watt HT and a rubber duck or mobile antenna (like a Diamond  
>3-5 db gain model)?

>--

>

>-----  
>Michael S. Sattler                   msattler@netcom.com                   +1 (415) 621-2903

I do not know if it is common - but a fellow Charlottetowner (VY2BP) here on  
PEI had an unexpected - but pleasant QSO with a previous shuttle mission  
using a hand held - at less than 5 watts. It was heard by a number of VY2s  
in the area.

Dave VY2DCS

-----  
Date: 5 Nov 93 03:47:11 GMT  
From: noc.near.net!news.delphi.com!usenet@uunet.uu.net  
To: info-hams@ucsd.edu

References <CFzCLI.7Lq@cbnews.cb.att.com>, <CFzDws.Fpv@usenet.ucs.indiana.edu>,  
<wb9omc.752453941@dynamo.ecn.purdue.edu>  
Subject : Re: 10m Mobile

Dave, I would suggest you keep your 10 meter mobile gear, as there  
are at least two easy-to-work Russian satellites that can be heard on  
29 mhz. One uses 2 meter SSB/CW (RS-10) and the other uses 15 meter  
SSB/CW (RS-12.)

Both probably pass over your QTH about 5 or 6 times a day, with  
passes ranging up to about 17 minutes in length.

If the band is completely dead, and you're totally bored, listen on

29.357 for the CW beacon of RS-10. Once you hear the beacon, start scanning between 29.360 and 29.400 for the live users. You may hear stations thousands of miles away.

RS-12 is very similar; its beacon is on 29.408, with the transponder output between 29.410 and 29.450.

I've worked RS-10 with just 10 watts of 2 meter SSB into a mobile mag-mount, and listened to the "downlink" on just a CB whip.

73 from Leigh Marrin/KM6JE in Santa Barbara.

(And a dirty little secret.... most of the current 10 meter mobile rigs can be easily expanded to cover CB and a little below. With the moronic mind-set of most CBers it may not be worth the trouble, however.)

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End of Info-Hams Digest V93 #1311

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